

In the Claims:

Please amend claims 1-3, 5-7 and 9-15 as follows:

1. (Currently Amended) A storage control apparatus for accessing data of a logical unit, which is comprised of a single or a plurality of physical units, by a request from a host, comprising:

a channel adapter for interfacing with said host; and

a plurality of controllers which ~~charge~~control each one of the plurality of logical units,

wherein when said ~~host sends~~channel adapter receives an I/O request to a concatenation logical unit concatenating ~~said~~a plurality of ~~said~~ logical ~~units, units~~units from ~~said~~ host, said channel adapter sends an I/O request for one logical unit of said plurality of logical units to one controller which ~~charges~~causes ~~said~~ one logical unit constituting said concatenation logical unit, out of said plurality of ~~controllers~~controllers, to execute the I/O processing in said one controller, and then ~~said channel adapter sends the~~another I/O request for another logical unit of said plurality of logical units to another controller which ~~charges~~causes ~~said~~ another logical unit constituting said concatenation logical ~~unit~~unit, out of said plurality of controllers, to execute the I/O processing in said other controller.

2. (Currently Amended) The storage control apparatus according to Claim 1, wherein said one controller judges whether said I/O request extending over to said another controller which ~~charges~~ is in charge of said another logical unit constituting said concatenation logical unit after said I/O processing, and responds the judgment result to said channel adapter.

3. (Currently Amended) The storage control apparatus according to Claim 2, wherein said each controller has a table for storing the LBAlogical block address range of each logical unit, and

    said controller refers to said table in the LBAlogical block address range requested by said I/O request, and judges whether said I/O request extending over to said another controller, which ~~charges~~ is in charge of said another logical unit constituting said concatenation logical unit.

4. (Original) The storage control apparatus according to Claim 2, wherein said channel adapter sends said I/O request to said another controller according to the response from said one controller that the I/O request extends to said another controller.

5. (Currently Amended) The storage control apparatus according to Claim 1, wherein said channel adapter has a table for storing said controllers

corresponding to each logical unit, the LBAlogical block address range of each logical unit, and the logical units constituting said concatenation logical unit, and  
said channel adapter selects a controller of said corresponding logical unit when an I/O request is received from said host.

6. (Currently Amended) The storage control apparatus according to Claim 5, wherein said each controller has a table for storing the LBAlogical block address range of each logical unit, and

said controller refers to said table in the LBAlogical block address range requested by said I/O request, and judges whether said I/O request is an I/O request extending over to said another controller, which chargesis in charge of said another logical unit constituting said concatenation logical unit.

7. (Currently Amended) The storage control apparatus according to Claim 1, wherein said each controller comprises:

a cache memory for storing a part of the data of said logical unit which the controller chargesis in charge of; and  
a processing unit for executing I/O processing using said cache memory according to said I/O request.

8. (Original) The storage control apparatus according to Claim 1, wherein said channel adapter is constituted by a plurality of channel adapters for connecting said plurality of controllers.

9. (Currently Amended) A storage control method for accessing data of a logical unit, which is comprised of a single or a plurality of physical units, by a request from a host, comprising steps of:

receiving an I/O request from said host to a concatenation logical unit concatenating a plurality of logical units by a channel adapter;

sending ~~the~~an I/O request for one logical unit of said plurality of logical units from said channel adapter to one controller which ~~eharges~~is in charge of said one logical unit constituting said concatenation logical unit out of a plurality of controllers which is in charge of said plurality of logical units;

executing I/O processing in said one controller;

sending ~~the~~another I/O request for another logical unit of said plurality of logical units from said channel adapter to another controller which ~~eharges~~is in charge of said another logical unit constituting said concatenation logical ~~unit;unit~~out of a plurality of controllers which is in charge of said plurality of logical units; and

executing the I/O processing in said other controller.

10. (Currently Amended) The storage control method according to

Claim 9, further comprising:

a step of judging whether said I/O request is an I/O request extending over to said another controller which charge is in charge of said another logical unit constituting said concatenation logical unit after said I/O processing by said one controller; and

a step of responding the judgment result to said channel adapter.

11. (Currently Amended) The storage control method according to

Claim 10, wherein said response step comprises:

a step of referring to a table storing the LBAlogical block address range of each logical unit in the LBAlogical block address range requested by said I/O request by said one controller; and

a step of judging whether said I/O request is an I/O request extending over to said another controller, which charge is in charge of said another logical unit constituting said concatenation logical unit.

12. (Currently Amended) The storage control method according to

Claim 10, wherein the step of executing I/O processing in said otheranother controller further comprises a step of sending said I/O request to said otheranother controller

according to the response from said one controller that the I/O request extends to said other controller by said channel adapter.

13. (Currently Amended) The storage control method according to Claim 9, wherein said reception step comprises:

a step of referring to a table for storing said controllers corresponding to each logical unit, LBAlogical block address range of each logical unit, and logical units constituting said concatenation logical unit by said channel adapter:adapter; and

a step of selecting a controller of said corresponding logical unit when an I/O request is received from said host.

14. (Currently Amended) The storage control method according to Claim 13, wherein said response step comprises:

a step of referring to a table storing the LBAlogical block address range of each logical unit in the LBAlogical block address range requested by said I/O request by said one controller; and

a step of judging whether said I/O request is an I/O request extending over to another controller, which charges is in charge of another logical unit constituting said concatenation logical unit.

15. (Currently Amended) The storage control method according to Claim 9, wherein the I/O processing step for said I/O request further comprises a step of executing I/O processing using a cache memory for storing a part of the data of said logical unit which each controller ~~charge~~controls according to said I/O request.

16. (Original) The storage control method according to Claim 9, wherein said reception step further comprises a step of which one of the plurality of channel adapters for connecting said plurality of controllers receives the I/O request from said host.